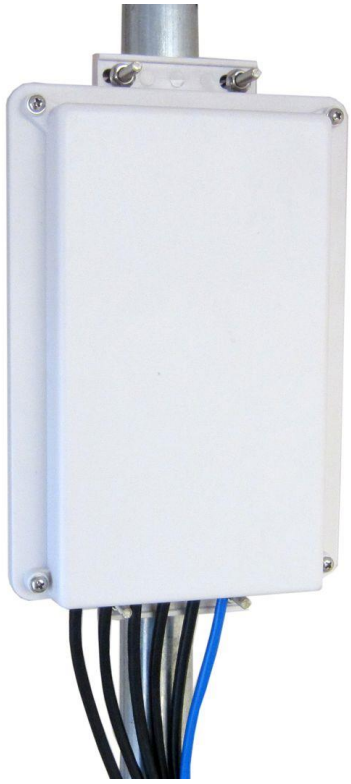
TP-SWxxNC-OUT

DATA SHEET

Outdoor POE Switch



Features

- **High Power Outdoor Passive POE Switch**
- **5 Port Gigabit and 8 Port 10/100 Models**
- **Switch Powered thru POE to Uplink Port or Wire Terminal**
- **Automatic MDI/MDI-X Crossover**
- **Automatic Speed and Duplex Sensing**
- **2K Self Learning MAC Address Table**
- **Weatherproof UV Protected Enclosure, Pole or Wall Mount**
- **High Temperature Operation**

Applications

- **Wireless Access Points and Client Devices**
- **IP Phone and Security Camera Systems**
- **Power Multiple Devices from 1 Data/POE Cable**

Description

The **TP-SWxxNC-OUT** series of outdoor POE switch are designed for operation in harsh outdoor environments. The switch can be powered via a wire terminal connector or over POE into the uplink port. This allows the switch to be mounted where it is needed and up to 100m from a power source. By using the switch as a repeater, the useable Cat5 cable distance between power source and user POE devices can be doubled to 200m.

The switch is available in a 5 port Gigabit model and an 8 port 10/100 model and two different POE voltages, a 24VDC POE model and a 48VDC POE model. The model can be changed in the field just by changing the power supply voltage which powers the switch. The switches are supplied with 120W AC to DC power supplies with Gigabit POE inserters.

The 24VDC POE model is compatible with 24VDC Passive PoE devices like UBNT and Mikrotik. The 48VDC Passive POE model is compatible with almost any device that complies with the 802.3af/at standard.

Device Pinouts

TP-SW8NC-OUT 10/100

RJ-45 Port 8 (Data and Power)			RJ-45 Port 1-7 (Data & Power)	
Pin	*Symbol*	*Description*	*Symbol*	*Description*
1	RX+	Data Receive(+)	RX+	Data Receive(+)
2	RX-	Data Receive(-)	RX-	Data Receive(-)
3	TX+	Data Transmit(+)	TX+	Data Transmit(+)
4	+Vdc	DC Power(+)	+Vdc	DC power(+)
5	+Vdc	DC Power(+)	+Vdc	DC power(+)
6	TX-	Data Transmit(-)	TX-	Data Transmit(-)
7	-Vdc	DC Power(-)	-Vdc	DC power(-)
8	-Vdc	DC Power(-)	-Vdc	DC power(-)

TP-SW5GNC-OUT 10/100/1000

RJ-45 Port 5 (Data & Power)			RJ-45 Port 1-4 (Data & Power)	
Pin	*Symbol*	*Description*	*Symbol*	*Description*
1	A+ / +Vdc	Data A+ / DC Power(+)	A+	Data A+
2	A- / +Vdc	Data A- / DC Powerr(+)	A-	Data A-
3	B+ / -Vdc	Data B+ / DC Power(-)	B+	Data B+
4	C+ / +Vdc	Data C+ / DC power(+)	C+ / +Vdc	Data C+ / DC power(+)
5	C- / +Vdc	Data C- / DC power(+)	C- / +Vdc	Data C- / DC power(+)
6	B- / -Vdc	Data B- / DC Power(-)	B-	Data B-
7	D+ / -Vdc	Data D+ / DC power(-)	D+ / -Vdc	Data D+ / DC power(-)
8	D- / -Vdc	Data D- / DC power(-)	D- / -Vdc	Data D- / DC power(-)

Specifications

	TP-SW5GNC-OUT-xx	TP-SW8NC-OUT-xx
Ethernet Standard	IEEE802.3/IEEE802.3u (10base-T/100base-T/1000Base-T)	IEEE802.3/IEEE802.3u (10base-T/100base-T)
POE Standard (Uplink Port)	Passive POE	Passive POE
Ports	1 data/PoE input and 4 data/PoE output automatic data crossover	1 data/PoE input and 7 data/PoE output automatic data crossover
Transmission Speed	1000 Mbps /100 Mbps /10 Mbps Auto-negotiation	100 Mbps / 10 Mbps Auto-negotiation
Switch Technology	Store and Forward	Store and Forward
Protocol	CSMA/CD	CSMA/CD
Flow Control	IEEE802.3x(full-duplex), Back Pressure(half-duplex)	IEEE802.3x(full-duplex), Back Pressure(half-duplex)
Address Table	1K MAC, self-learning	2K MAC, self-learning
Connections	Shielded RJ45	Shielded RJ45
Maximum POE Power	Port 1-5, 1A Per Port Secondary Wire Terminal Input Max 10A	Port 1-8, 2A Per Port Secondary Wire Terminal Input Max 10A
POE Protection	Over Temperature, Over Current, Over/Under Voltage	Over Temperature, Over Current, Over/Under Voltage
LED's	*Link* (Green On) *Activity* (Green Blinking) *POE Detect* (Yellow On) *POE Detect Error* (Yellow Blinking) *Power On* (Green On) *Power On Alarm* (Red On)	*Link* (Green On) *Activity* (Green Blinking) *POE Detect* (Yellow On) *POE Detect Error* (Yellow Blinking) *Power On* (Green On) *Power On Alarm* (Red On)
DC Power / POE Input	*12V to 57V* *Dual DC Inputs, Reverse Polarity Protected.*	*12V to 57V* *Dual DC Inputs, Reverse Polarity Protected.*
Self Consumption	*<3 Watts*	*<1.5 Watts*
Operating Temperature	*-20 to +75°C (-4 to 167°F)*	*-40 to +85°C (-40 to 185°F)*
Operating Humidity (RH)	100%, Nema 4x / IP65	100%, Nema 4X / IP65
Storage Temperature	-55 to +105°C (-67 to +221°F)	-55 to +105°C (-67 to +221°F)
Dimensions (LxWxH)	292 x 178 x 64mm (11.5 x 7 x 2.5")	292 x 178 x 64mm (11.5 x 7 x 2.5")
Weight	0.95kg(2.1lb) Total with ACDC PS = 1.8kg (4lbs)	1kg (2.25lb) Total with ACDC PS = 1.9kg (4.2lbs)

Notes:

- All shipments F.O.B. Bluffdale, UT 84065
- Tycon Power Systems Outdoor POE Switches carry a 2 year warranty

Gigabit POE Inserter

120W AC/DC POE Supply

System Ordering:

TP-SW5GNC-OUT-24 5 Port 24VDC Passive POE Gigabit Outdoor Switch (24VDC 120W POE supply included)
TP-SW5GNC-OUT-48 5 Port 48VDC Passive POE Gigabit Outdoor Switch (48VDC 120W POE supply included)
TP-SW8NC-OUT-24 8 Port 24VDC Passive POE 10/100 Outdoor Switch (24VDC 120W POE supply included)
TP-SW8NC-OUT-48 8 Port 48VDC Passive POE 10/100 Outdoor Switch (48VDC 120W POE supply included)

**Add an "E" suffix for Euro power cord*

For further information contact:

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